

AMENDMENTS TO THE SPECIFICATION

Please delete the second full paragraph on page 7 in the specification, and replace with the following new one:

More preferably, the average roughness R_a of the outer ring raceway surface is set within $0.1\ \mu\text{m} \leq R_a \leq 0.5\ \mu\text{m}$ in the axial direction and the circumferential direction in ranges of $b_1/(B/2) \leq 0.9$, ~~$b_2(B/2) \leq 0.9$~~ $b_2/(B/2) \leq 0.9$ and in a measured length of 0.1 mm to 1.0 mm where B is a width of the outer ring and b_1 , b_2 are a distance from both end surfaces of the outer ring respectively, and the roughness parameter S is set within $0 < S \leq 20\ \mu\text{m}$.

Please delete and replace the third full paragraph on page 14 bridging page 15 in the specification, and replace with the following new one:

A surface roughness of the outer ring raceway surface 14 is made more coarsely than a surface roughness of the inner ring raceway surfaces 12a, 12b (normally $0.05\ \mu\text{m}$ to $0.15\ \mu\text{m}$). Then, the outer ring raceway surface 14 is subjected to the grinding while setting the rotation axis of the grindstone (not shown) in parallel with a central axis of the outer ring 13, and then is subjected to the super finishing while swinging the grindstone along the axial direction of the outer ring 13. An average roughness R_a in the axial direction and the circumferential direction is given as $0.1\ \mu\text{m} \leq R_a \leq 0.5\ \mu\text{m}$ in ranges of $b_1/(B/2) \leq 0.9$, ~~$b_2(B/2) \leq 0.9$~~ $b_2/(B/2) \leq 0.9$ within a measured length of 0.1 mm to 1.0 mm, where B is a width of the outer ring 13 and b_1 , b_2 are a distance from both end surfaces of the outer ring 13 respectively.

Please delete the first full paragraph on page 15 in the specification, and replace with the following new one:

In this way, if an average roughness R_a of the outer ring raceway surface 14 in the axial direction and the circumferential direction is set to $0.1\ \mu\text{m} \leq R_a \leq 0.5\ \mu\text{m}$ in the ranges of

$b_1/(B/2) \leq 0.9$, $b_2(B/2) \leq 0.9$ $b_2/(B/2) \leq 0.9$ and within the measured length of 0.1 mm to 1.0 mm, a variation of the local roughness is reduced in the overall area of the outer ring raceway surface 14, which comes into contact with the roller 15, and also a coefficient of friction of the outer ring raceway surface 14 to the roller 15 is stably increased. As a result, an extension of the lifetime can be achieved by suppressing an early flaking caused due to the surface damage such as the peeling, or the like.

Please delete the forth full paragraph on page 46 bridging page 47 in the specification, and replace with the following new one:

In the present invention, if the lower limit value R_{ao} in the roughness range of the outer ring raceway surface 34a and the upper limit value R_{ai} in the roughness range of the ~~inner ring~~ inner ring raceway surface 32a are viewed in the light of the roughness range, a difference in the roughness between the outer ring raceway surface 34a and the inner ring raceway surface 32a is mostly reduced, i.e., a difference in the frictional force between the outer ring 33 and the roller 35 and between the inner ring 31 and the roller 35, and thus the effect produced by making the outer ring raceway surface 34a coarse is brought into its smallest state.